

Response dated 09/20/2005
Reply to Office Action dated 07/13/2005

Application No. 10/001,357

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Cancelled)
2. (Previously presented) A computing device in communication with an implantable drug delivery device for delivering at least one drug to a patient, the drug delivery device having a reservoir containing at least one drug and a nonconformance monitor module configured to monitor at least one performance parameter, the computing device comprising in combination:
 - (a) a memory having stored therein pump performance acquisition instructions;
 - (b) a telemetry module providing bi-directional communication between the computing device and the implantable drug delivery device and providing the pump performance acquisition instructions to the implantable drug delivery device and receiving pump performance data from the implantable drug delivery device, the pump performance data is selected from the group consisting of pump reservoir pressure, fluid outlet pressure, propellant pressure, fluid flow rate, battery current drain, motor current drain, motor drive current profile, battery voltage, and physiologic sensor output level; and
 - (c) a nonconformance management module contained within the memory receiving the pump performance data and determining whether the pump is conforming to performance requirements, and determining what action should be taken if non-conformance is determined.
3. (Previously presented) The computing device of claim 2, wherein the memory includes patient performance requirements information.
4. (Previously presented) The computing device of claim 2, wherein the memory includes pump manufacturer requirements information.
5. (Previously presented) The computing device of claim 2, wherein the memory includes a scheduling module for scheduling an appointment to service the device.
6. (Original) The computing device of claim 5, wherein the scheduling module is capable of contacting at least one entity for the appointment, wherein the entity is selected from the group consisting of a pharmacy, a caregiver, a physician, a hospital, and the patient.

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7. (Original) The computing device of claim 6, wherein the computing device is operatively coupled to the entity via a computing network.

8. (Original) The computing device of claim 7, wherein the computing network is an Internet.

Claims 9-12 (Cancelled)

13. (Previously presented) An implantable drug delivery device having performance data reporting capability comprising in combination:

- (a) a memory having stored therein pump performance acquisition instructions;
- (b) at least one nonconformance monitor module for monitoring at least one pump operation variable in accordance with the pump performance acquisition instructions to produce pump performance data, wherein the pump operation variable is selected from the group consisting of pump reservoir pressure, fluid outlet pressure, propellant pressure, fluid flow rate, battery current drain, motor current drain, motor drive current profile, battery voltage, and physiologic sensor output level; and
- (c) a non-conformance management module receiving the pump performance data, determining whether the pump is conforming to performance requirements, and determining what action should be taken if non-conformance is determined.

14. (Previously presented) An implantable drug delivery device having performance data reporting capability comprising in combination:

- (a) a memory having stored therein pump performance acquisition instructions;
- (b) at least one nonconformance monitor module for monitoring at least one pump operation variable in accordance with the pump performance acquisition instructions to produce pump performance data, wherein the pump performance data is selected from the group consisting of pump reservoir pressure, fluid outlet pressure, propellant pressure, fluid flow rate, battery current drain, motor current drain, motor drive current profile, battery voltage, and physiologic sensor output level; and

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(c) a non-conformance management module receiving the pump performance data, determining whether the pump is conforming to performance requirements, and determining what action should be taken if non-conformance is determined.

Claims 15-16 (Cancelled)

17. (Previously presented) An implantable drug delivery device having performance data reporting capability comprising in combination:

- (a) a memory having stored therein pump performance acquisition instructions;
- (b) at least one nonconformance monitor module for monitoring at least one pump operation variable in accordance with the pump performance acquisition instructions to produce pump performance data; and
- (c) a non-conformance management module receiving the pump performance data, determining whether the pump is conforming to performance requirements, and determining what action should be taken if non-conformance is determined, wherein the memory has stored therein pump manufacturer requirements information that is also received by the non-conformance management module.

Claims 18-28 (Cancelled)

29. (Previously presented) The implantable drug delivery device of claim 14, wherein the non-conformance management module further determines whether the pump performance data is indicative of a non-programming change to the implantable drug delivery device.

30. (Previously presented) The implantable drug delivery device of claim 29, wherein the non-conformance management module further performs the non-programming change to the implantable drug delivery device.

31. (Previously presented) The implantable drug delivery device of claim 14, wherein the non-conformance management module further determines whether the pump performance data is indicative of a programming change to the implantable drug delivery device.

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32. (Previously presented) The implantable drug delivery device of claim 31, wherein the non-conformance management module further performs the programming change to the implantable drug delivery device.

33. (Previously presented) The computing device of claim 2, wherein the nonconformance management module further determines whether the pump performance data is indicative of a non-programming change to the pump.

34. (Previously presented) The computing device of claim 33, wherein the nonconformance management module further performs the non-programming change to the pump.

35. (Previously presented) The computing device of claim 2, wherein the nonconformance management module further determines whether the pump performance data is indicative of a programming change to the pump.

36. (Previously presented) The computing device of claim 35, wherein the nonconformance management module further performs the programming change to the pump.

37. (Previously presented) The computing device of claim 35, wherein the nonconformance management module reports the pump performance data to an external device through the telemetry module.

38. (Previously presented) The computing device of claim 2, further comprising:
a storage device that receives an event indication that is associated with the pump performance data.

39. (Previously presented) The implantable drug delivery device of claim 14, further comprising:

(d) at least one reporting module to report the pump performance data via telemetry to an external device.

40. (Previously presented) The implantable drug delivery device of claim 14, wherein the memory has stored therein patient performance requirements information that is also received by the non-conformance management module.

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41. (Previously presented) The implantable drug delivery device of claim 14, wherein the memory has stored therein pump telemetry data that is also received by the non-conformance management module.

42. (Previously presented) The implantable drug delivery device of claim 13, further comprising:

(d) at least one reporting module to report the pump performance data via telemetry to an external device.

43. (Previously presented) The implantable drug delivery device of claim 13, wherein the memory has stored therein patient performance requirements information that is also received by the non-conformance management module.

44. (Previously presented) The implantable drug delivery device of claim 13, wherein the memory has stored therein pump telemetry data that is also received by the non-conformance management module.

45. (Previously presented) The implantable drug delivery device of claim 14, further comprising:

(d) at least one reporting module to report the pump performance data via telemetry to an external device.

46. (Previously presented) The implantable drug delivery device of claim 17, wherein the memory has stored therein patient performance requirements information that is also received by the non-conformance management module.

47. (Previously presented) The implantable drug delivery device of claim 14, wherein the memory has stored therein pump telemetry data that is also received by the non-conformance management module.

Claims 48-49 (Cancelled)

50. (New) The computing device of claim 2, wherein the pump performance data comprises pump reservoir pressure.

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51. (New) The computing device of claim 2, wherein the pump performance data comprises fluid outlet pressure.

52. (New) The computing device of claim 2, wherein the pump performance data comprises propellant pressure.

53. (New) The computing device of claim 2, wherein the pump performance data comprises fluid flow rate.

54. (New) The computing device of claim 2, wherein the pump performance data comprises battery current drain.

55. (New) The computing device of claim 2, wherein the pump performance data comprises motor current drain.

56. (New) The computing device of claim 2, wherein the pump performance data comprises motor drive current profile.

57. (New) The computing device of claim 2, wherein the pump performance data comprises battery voltage.

58. (New) The computing device of claim 2, wherein the pump performance data comprises physiologic sensor output.

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